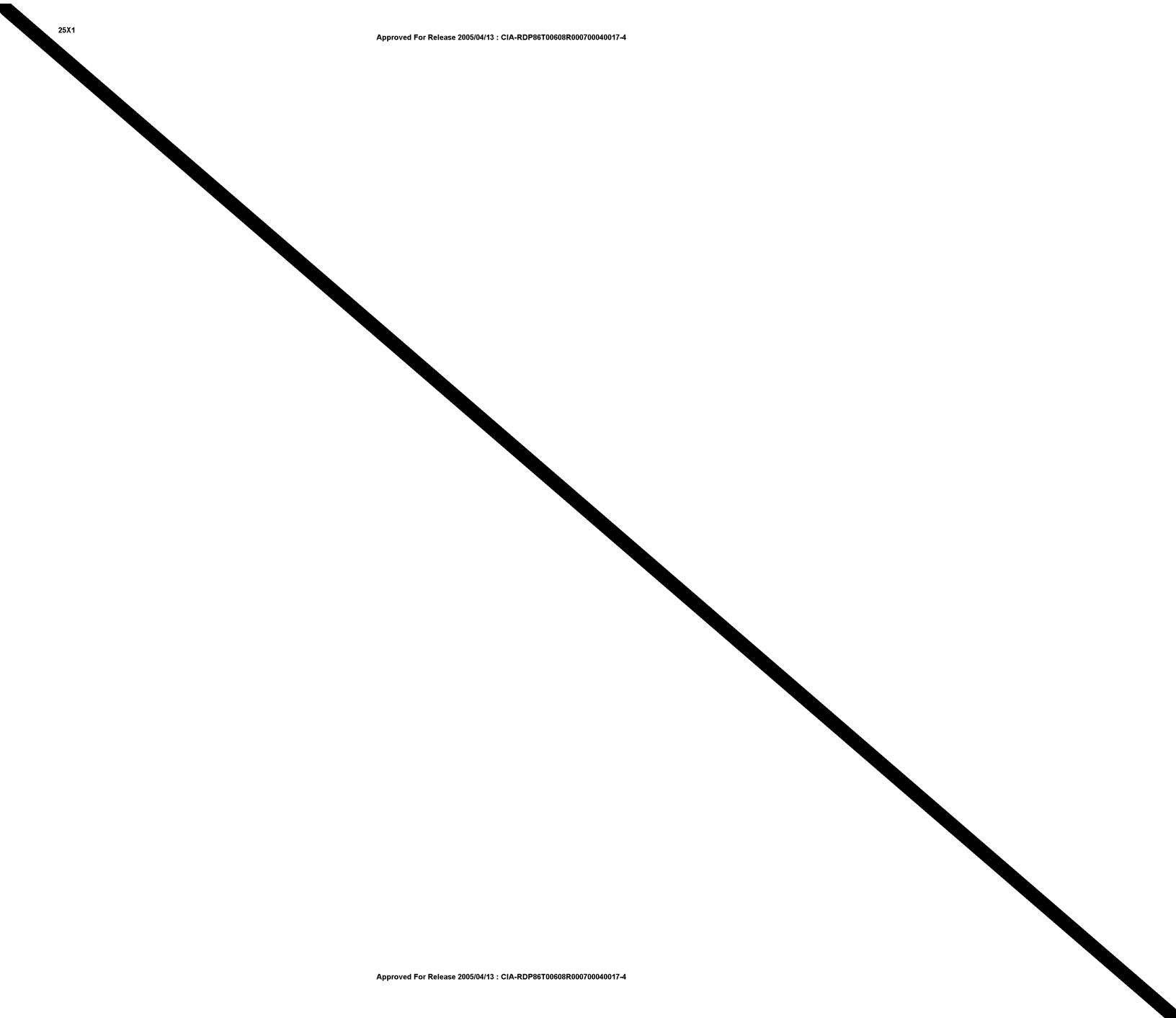

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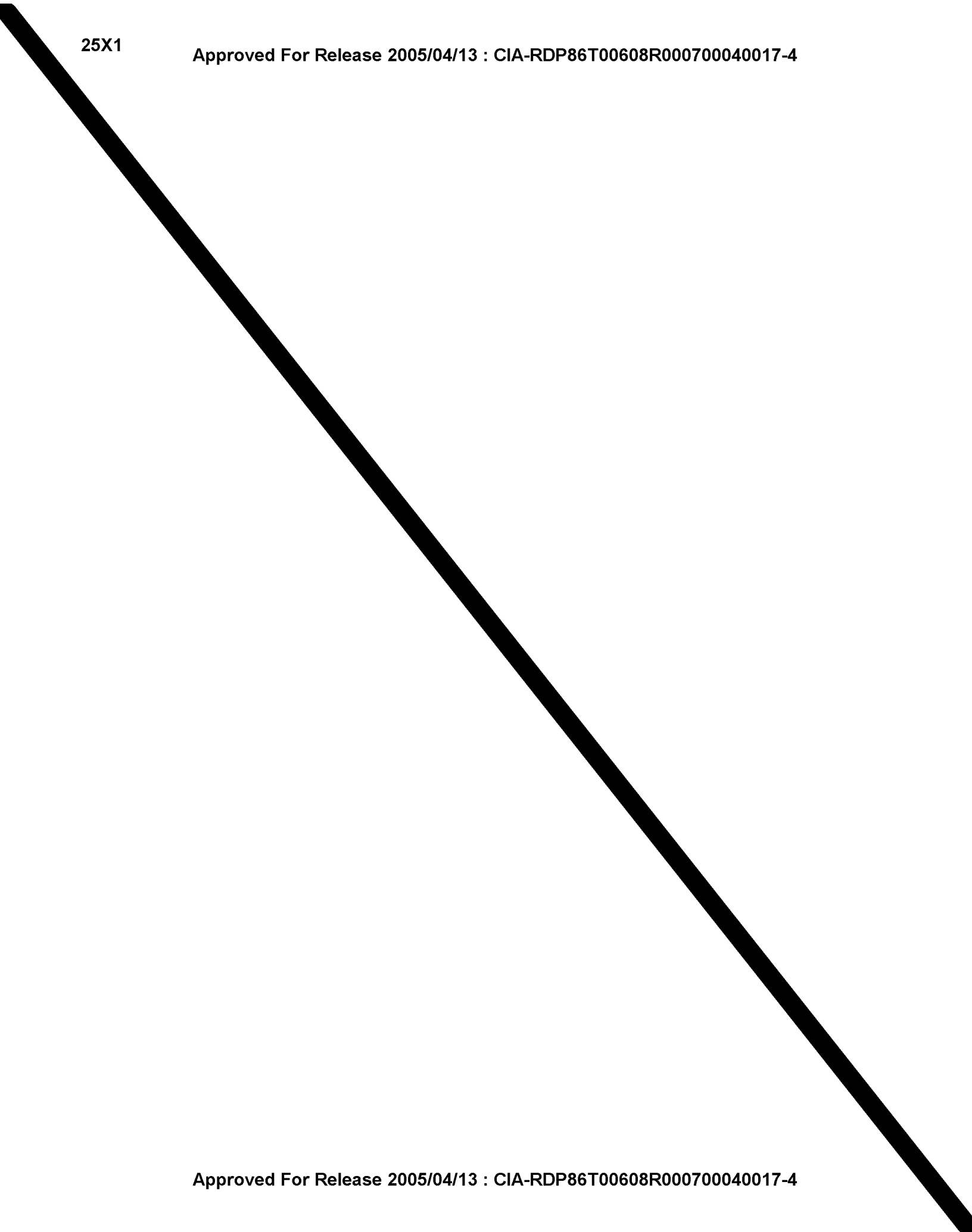
TSWS-17/75
28 April 1975



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WEEKLY SURVEYOR

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USSR AND EASTERN EUROPE

The main purpose of social psychology in the USSR is defined as political indoctrination of the Soviet populace. The leading research centers are indicated. This research appears to be exploratory, but it eventually may provide the leadership with the data needed to exercise greater control over the Soviet individual.

25X1 [redacted]

Early Soviet concern about the threat of leaf rust disease to the winter wheat crop is justified. Mild fall and winter weather conditions could lead to large concentrations of infective spores much earlier than usual. Wind dissemination of these spores could affect winter wheat in parts of the Ukraine and other regions of the European USSR.

25X1 [redacted]

The Soviets have developed a prototype 250-MHz oscilloscope designated the S1-75. This is the first Soviet Bloc real-time UHF DC-coupled oscilloscope with millivolt sensitivity. Although the S1-75 represents a considerable advance in Soviet state-of-the-art, it lags US technology by 6 to 7 years. If the S1-75 is successfully introduced into production, it could facilitate Soviet work in such areas as high speed computers, fast integrated circuits, cryptographic equipment and high speed digital communications.

[redacted]

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[redacted]

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WESTERN EUROPE

The UK has banned the import of animals and meat products from Belgium because of foot-and-mouth disease outbreaks. Thirty-four outbreaks have occurred in Belgium since October 1964. Control procedures have been implemented in the country and the origin of the disease remains unknown.

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BEHAVIORAL SCIENCES

Soviet Social Psychology's Main Goal Is Defined As Political Indoctrination of the Soviet People: The main purpose of social psychology is defined as political indoctrination of the Soviet people. A person's attitudes, interests, emotions, habits and most importantly his dedication to the state are seen as being amenable to control through psychological techniques. The article indicates that the main centers of Soviet research are the Soviet Sociological Association, the Institute for Concrete Social Research, USSR Academy of Sciences; the Leningrad Social Research Institute; the Social Psychological Laboratory, Leningrad University; and several institutes of the USSR Academy of Pedagogical Sciences.

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Comment: Most of the research appears to be preliminary or exploratory. The Soviets are aware of US studies on political socialization and sociology which would be relevant to their stated goal. Since the Soviet leadership traditionally has been preoccupied with ensuring the political reliability of the populace, active research will provide the leadership with data to exercise more control over the Soviet individual.

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AGROTECHNOLOGY AND FOOD RESOURCES

United Kingdom Bans Belgian Animals and Meat Products: The UK Ministry of Agriculture has banned the import of live animals and meat products from Belgium because there have been 34 outbreaks of type "O" foot-and-mouth disease in Belgium since October 1974. Travelers to the UK are being advised to be certain their clothing is disinfected before exposure to animals in the UK. The origin of the outbreaks in Belgium is unknown. Control procedures being employed include immunization of susceptible animals and slaughter of infected and exposed animals. Indemnities paid by the Belgium government for the destruction of infected animals has reached approximately $1 million. [redacted] 25X1

[redacted] 25X1

Comment: The suspension of Belgian imports illustrates the determination of the UK to protect its animal populations from FMD even though the affected country is a fellow member of the European Economic Community. The actions and measures being employed by the UK are consistent with accepted measures employed to protect a susceptible animal population from infectious diseases.

FMD is one of the most devastating of animal diseases. The losses associated with an FMD outbreak can be of major economic significance since the disease has a morbidity rate near 100 percent and a mortality rate of 5 to 50 percent.

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Mild Soviet Winter Poses Threat of Wheat Rust Disease Outbreaks: In the Kuban area (Krasnodar Kray), early reports indicate that three-fourths of the grain fields have a potential for high production, while the remaining fields will require intensive care. The latter, because of lush growth, warm temperatures and lack of snow cover are susceptible to leaf rust. As preventive measures, scientists have recommended that these fields be thinned and then treated with potassium and phosphate fertilizers. Application of nitrogen fertilizer on these fields is practically forbidden.

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Comment: This very early Soviet concern about the potential threat of wheat leaf rust disease is justified. This disease can reduce yields by 20 to 30 percent or more in susceptible varieties. Mild fall and winter conditions have been conducive to overwintering of the disease. The formation of uredopustules, which produce the infective rust spores, already may have occurred on some wheat fields.

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In the 1973 leaf rust epiphytotic in the Kuban area, heavy spore concentrations in the atmosphere began to occur during the last 10 days in May. But this year, unless spore production and dissemination is curtailed by weather unfavorable to disease development, heavy spore concentrations could occur much earlier. Wind dissemination of these large quantities of spores could affect winter wheat in parts of the Ukraine and other regions of European USSR, if the weather remains favorable.

All Soviet commercial varieties of winter wheat are susceptible to the new virulent biotypes of leaf rust which now predominate in the European USSR, race 77 (biotype 1) and race 77/B (biotype 103). The application of P-K fertilizers and prohibition of nitrogen application will have little appreciable effect on the course of early rust disease development.

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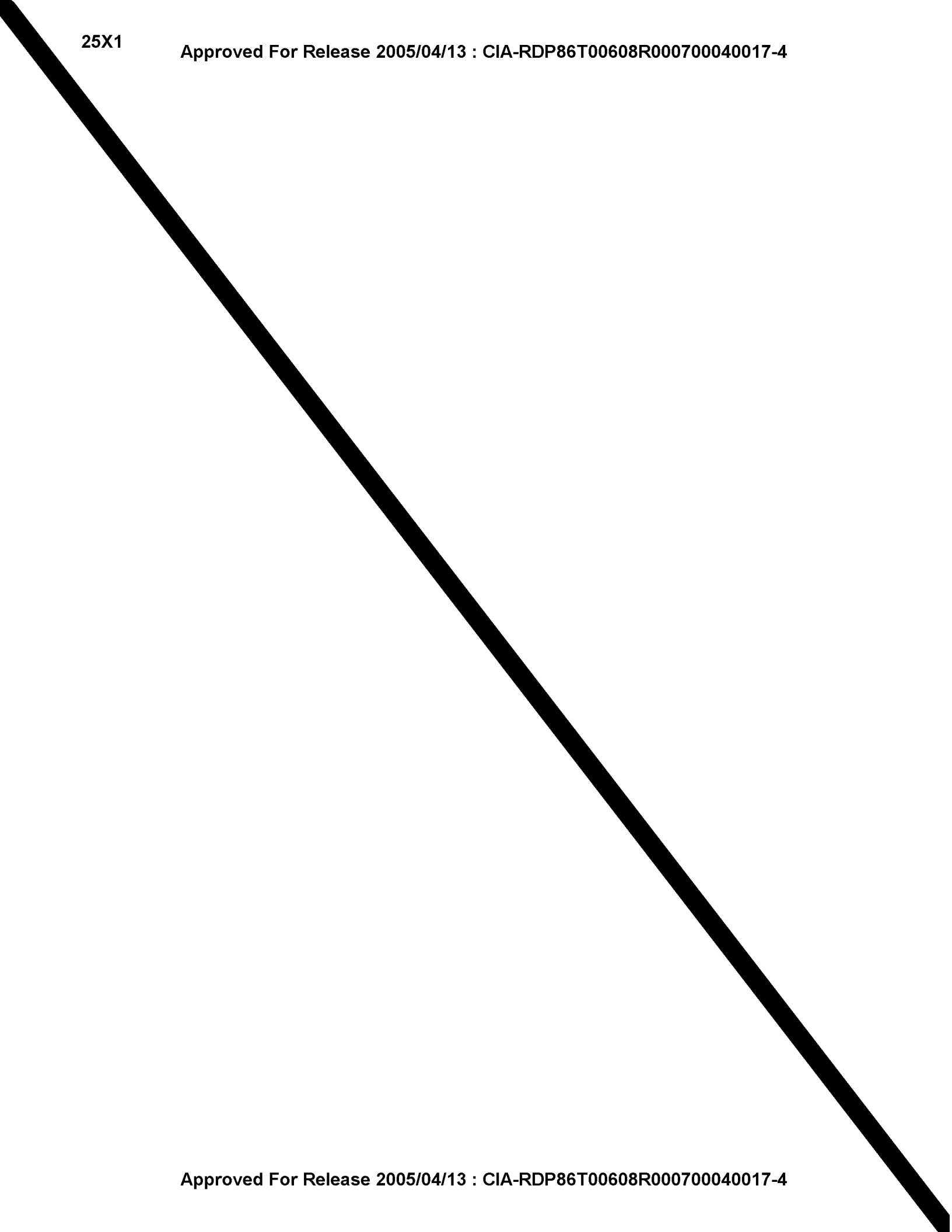

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PHYSICAL SCIENCES AND TECHNOLOGIES

USSR Develops Prototype 250-MHz Oscilloscope: A 1974 catalog of Soviet instruments announced a new model S1-75 oscilloscope "planned for introduction into production in 1975-1976." The S1-75 is described as a portable, real-time, dual trace unit with a bandwidth of DC-250 MHz. Maximum sensitivity is 10 millivolts/centimeter (mv/cm). The cathode ray tube has a passband of at least 600 MHz and a sensitivity of 2 volts/centimeter (v/cm). The catalog states that all functional elements of the oscilloscope are implemented with integrated circuits.

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Comment: The S1-75 is the first Soviet Bloc real-time UHF DC-coupled oscilloscope with millivolt sensitivity. Its nearest Soviet or East European competitor is a Polish unit at 150 MHz and 50 Mv/cm. Although the S1-75 represents a considerable advance in Soviet state-of-the-art, it lags US technology by 6 to 7 years.

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The USSR has been meeting its needs for UHF high sensitivity scopes with a line of domestically-produced sampling scopes and, for high priority users, with Free World real time units acquired in violation of export control regulations. Sampling scopes are less versatile and more difficult to use. Illegally obtained Western scopes may not be available in sufficient quantity and, in any case, are expensive. If the Soviets are successful in introducing the S1-75 into production, it could facilitate their work in such areas as high speed computers, fast integrated circuits, cryptographic equipment, and high speed digital communications.

The brochure does not indicate whether the S1-75 will use monolithic or hybrid linear ICs. To avoid vertical amplifier problems with component parameter matching, unwanted capacitance and inductance, and thermal drift, monolithic linear ICs would be preferable. Successful construction and production of such ICs, however, would be a technical step forward for the Soviets.

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